## Sertifikaat

**PATENTKANTOOR** 

REPUBLIEK VAN SUID-AFRIKA



ZA00/

DEPARTEMENT VAN HANDEL EN NYWERHEID

REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF TRADE AND INDUSTRY

Certificate

Hiermee word gesertifiseer dat This is to certify that

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REC'D 14 MAR 2000

WIPO

POT

- 1) African South Patent Application No. 99/1099 accompanied by a Provisional Specification was filed at the South African Patent Office on the 11 February 1999, in the name of Africa Outdoors ACS (Proprietary) Limited in respect of an invention entitled: "Firearm".
- 2) The photocopy attached hereto is a true copy of the provisional specification and drawings filed with South African Patent Application No. 99/1099.

## **PRIORITY** DOCUMENT

SUBMITTED OR TRANSMITTED IN COMPLIANCE WITH RULE 17.1(a) OR (b)

in die Republiek van Suid-Afrika, hierdie in the Republic of South Africa, this

16th day of dag van

Registrateur van Patente Registrar of Patents

G.P.-S. 019-0096

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|------------|--|-----------------------|-------------------|-------------|--------------------------------------|--|--|
| D.N        | I. KISCH INC. hannesburg   |                       | MS                |             | Form P.1                             |  |  |
| REP<br>PAT | UBLIC OF SOUTH CRICA<br>ENTS ACT, 1978   | . /                   |                   |             | 18800                                |  |  |
| APP        | LICATION FOR A PATENT AND ACKNOW   | LEDGEMENT O           | RECEIPT           |             |                                      |  |  |
| Th         | tion 30 (1) - Regulation 22) grant of a patent is hereby requested by the ne basis of the present application filed in du  | undermentioned        | applicant         | la f        | STUDIO PIA                           |  |  |
| On ti      | PATENT APPLICATION NO.   | iplicate.             | AGENT'S RE        | FERENCE     |                                      |  |  |
| 21         |  | P99/774               |                   | TILITOL     |                                      |  |  |
|            | 991099   | P99///4               | <del></del>       |             |                                      |  |  |
| Fl         | JLL NAME(S) OF APPLICANT(S)  |                       |                   |             |                                      |  |  |
|            | AFRICA OUTDOORS ACS (PROPRIET  | ARY) LIMITED          |                   |             |                                      |  |  |
| 71         |  |                       |                   |             |                                      |  |  |
| AI         | DDRESS(ES) OF APPLICANT(S)   | 1                     |                   |             |                                      |  |  |
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|            | NIGEL<br>1490  |                       |                   |             |                                      |  |  |
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| Ti         | TLE OF INVENTION   |                       |                   |             |                                      |  |  |
|            | FIREARM  |                       |                   |             |                                      |  |  |
| 54         |  |                       |                   |             |                                      |  |  |
|            | THE APPLICANT CLAIMS PRIORITY AS: The earliest priority claimed is THIS APPLICATION IS FOR A PATENT O  |                       |                   |             | VI P.2.                              |  |  |
|            | ADDITION TO PATENT APPLICATION N   | 0.                    |                   | 01          |                                      |  |  |
|            | THIS APPLICATION IS A FRESH APPLICATION 37 AND BASED ON APPLICATION 37 AND BASED ON APPLICATION OF THE PROPERTY OF THE PROPERT | CATION IN TERMS       | S 21              | 01          | İ                                    |  |  |
| TH         | IIS APPLICATION IS ACCOMPANIED BY :  |                       |                   |             |                                      |  |  |
| X          | 1 A copy of a provisional or one woodpy xofvar   | rx kri sornalxornnobs | e specification o | of 5 page   | es.                                  |  |  |
|            | 2 Drawings of sheets.  |                       |                   | F-9         |                                      |  |  |
|            | 3 Publication particulars and abstract (Fo   |                       | e ).              |             |                                      |  |  |
|            |  | for the abstract.     |                   |             |                                      |  |  |
|            | 5 An assignment of invention. 6 Certified priority document(s) ( State number ).   |                       |                   |             |                                      |  |  |
|            | 7 Translation of priority document(s).   |                       |                   |             |                                      |  |  |
|            | 8 An assignment of priority rights.  |                       |                   |             |                                      |  |  |
|            | 9 A copy of Form P.2 and specification of  |                       | ation No. 21      | 01          |                                      |  |  |
| <u> </u>   | A declaration and power of attorney on Form P.3.  Request for ante-dating on Form P.4.   |                       |                   |             |                                      |  |  |
|            | 12 Request for classification on Form P.9.   |                       |                   |             |                                      |  |  |
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| DAT        | ED THIS THE DAY OF   | February              | 19 99 ·           |             |                                      |  |  |
| (          | Man  | \                     |                   |             |                                      |  |  |
| Pate       | nt Attorney for the Applicant(s)   | ` <u> </u>            | 10000             | EIMEDIS, DE | SIEMS.                               |  |  |
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Patent Attorneys & Trademark Agents Attorneys & Notaries

## REPUBLIC OF SOUTH AFRICA

PATENTS ACT, 1978.

## **PROVISIONAL SPECIFICATION**

(Section 30 (1) - Regulation 27)

| PATENT APPLICATION NO.    | LODGING DATE.           | AGENT'S REFERENCE |  |
|---------------------------|-------------------------|-------------------|--|
| 21 01 991099              | 22 11-02-1999           | P99/77442         |  |
| FULL NAME(S) OF APPLICANT | (S)                     |                   |  |
| 71 AFRICA OUTDOORS AC     | S (PROPRIETARY) LIMITED |                   |  |
| FULL NAME(S) OF INVENTOR( | S)                      |                   |  |
| 72 NICOLAAS CORNELIUS     | VAN ZYL                 | •                 |  |
| TITLE OF INVENTION        |                         |                   |  |
| FIREARM<br>54             |                         |                   |  |

This invention relates to a firearm device.

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According to the present invention a firearm device comprises

- a firearm;
- safety means for preventing the firearm from being fired by an unauthorized person; and
- information storage means for recording and storing at least one aspect of the group consisting of images, sound, time and location of the firearm.

The firearm may comprise any conventional firearm or any other firearm for firing a projectile. The firearm may comprise a rifle but preferably it comprises a hand gun. The firearm may include an electronic fire mechanism.

The safety means may comprise a mechanical means.

In a preferred embodiment the safety means may comprise an information carrier or gathering means, and a processing means for processing the information received, and allowing firing of the firearm to take place only if the information received complies with certain requirements.

The information casher may comprise a card or similar desce. In use the card may have information recorded thereon in respect of, for example, personal physical information of the authorized user such as skin prints or the like. The card may also include details thereon regarding the license of the firearm.

The safety means may also include reading means for reading information on the information carrier.

The information gathering means may comprise means for gathering certain physical information from the person to use the firearm. The gathering means may comprise means for recording information such as skin prints (particularly fingerprints), voice, retina scanning, DNA identification or the like.

The processing means may also include a memory means for storing information therein. In use the processing means may compare information received with information on the memory means and only allow firing to take place if the information corresponds.

In one example the authorized users thumbprint may be stored on the card and it may be stored on the memory means. In use firing will only be allowed by the processor if the thumbprint or the card is the same as that on the memand the same as that received by the formation gathering means which in use takes a thumb print of the person holding the firearm.

The safety mechanism may also be adapted in order that the firearm can be de-activated to prevent firing, in a similar way that a cell phone is blocked. This can be used to de-activate the firearm when it gets stolen, or when the license expires (if firearm licenses are made valid for a certain period of time only). The firearm can also be programmed to be operational for a specific period of time, for example when the authorized person (such as a policeman) is on duty.

A remote controllable device may also be installed for controlling the firearm device from a remote position.

The information storage means may comprise a camera such as a CCD camera for recording and storing images and/or; a microphone for recording sound and/or; a timepiece for recording time and/or; a GPS for recording position in the form of geographical co-ordinates. Preferably the information storage means comprises all the above.

The camera may be mounted to face along the barrel defined by the firearm, thereby allowing it to record an image in the direction in which the barrel is facing.

The time piece may comprise any suitable timepiece for providing time and date. The timepiece may comprise a real time clock.

The firearm device may also include trigger means for triggering the information storage means to record and store. Preferably the information storage means is so triggered when the trigger of the firearm is pulled.

It will be appreciated that in this way, when a shot is being fired, an image (along the barrel), sound, time and date and the position of the firearm can be recorded at the time of firing. It is believed that this will result in more responsible use of firearms and reduce crime. For example the firearm device may be programmed to be operable for only a certain period of time, and in order to continue use, the firearm will have to be taken to the authorities which can then download information stored on the firearm before allowing it to be used again.

DATED THIS THE 11th DAY OF FEBRUARY 1999.

D M KISCH INC

PATENT ATTORNEYS FOR APPLICANT

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